

CLAIMS

What is claimed is:

- 1 1. A user interface for a handheld communication device, comprising a main screen
2 segregated into a number of screen areas, at least one of the screen areas devoted to a
3 system window in which a system application for displaying status icons for the handheld
4 communication device executes, and another of the screen areas devoted to an application
5 window in which a browser executes to display an HTML page having current or recent
6 application information for respective user applications, which user applications may be
7 accessed through interaction with the browser.
- 1 2. The user interface of claim 1 wherein the application information comprises user
2 application status information.
- 1 3. The user interface of claim 1 wherein the application information comprises recent
2 communication messages to or from the handheld communication device.
- 1 4. The user interface of claim 3 wherein the communication messages comprise one or
2 more of e-mail messages, short messaging service messages, or instant messaging service
3 messages.
- 1 5. The user interface of claim 1 wherein the application information comprises one or
2 more upcoming events or to do items for a user of the handheld communication device.

5 media information, flash animation information, banner ads, packet video information, gif
6 animations, image files, or multimedia information.

1 20. The user interface of claim 19 wherein the area reserved for displaying advertising
2 information is located at the bottom of the application window.

1 21. The user interface of claim 1 wherein the system window includes an area reserved for
2 display of a logo icon.

1 22. The user interface of claim 21 wherein selection of the logo icon causes a folder menu
2 to be displayed on a display of the handheld communication device.

1 23. The user interface of claim 22 wherein the folder menu includes an area reserved for a
2 listing of recently used ones of the user applications.

1 24. The user interface of claim 22 wherein the recently used ones of the user applications
2 are displayed as icons within the reserved area.

1 25. The user interface of claim 22 wherein the folder menu comprises a dropdown menu of
2 available application groups for the handheld communication device.

1 26. The user interface of claim 25 wherein the application groups include one or more of:
2 an all application group, a communication application group, a multimedia application
3 group, a personal productivity application group, a main application group that includes a
4 personal information manager application, a games application group, a system application
5 group, and a user personal applications group.

1 27. The user interface of claim 25 wherein selection of one of the application groups
2 causes a window that includes images representing those of the user applications that
3 belong to the selected application group to be opened.

1 28. A handheld communication device comprising a display unit coupled to a processor
2 having access to a computer-readable storage medium having stored therein computer-
3 readable instructions, which, when executed by the processor, cause the processor to
4 display a user interface on the display of the handheld communication device, which user
5 interface includes a main screen segregated into a number of screen areas, at least one of
6 the screen areas being devoted to a system application for displaying status icons for the
7 handheld communication device, and another of the screen areas being devoted to a
8 browser application for displaying current or recent application information for respective
9 user applications, which user applications may be accessed through user interaction with
10 the browser.

1 29. The handheld communication device of claim 28 wherein the application information
2 comprises user application status information.

1 30. The handheld communication device of claim 28 wherein the application information
2 comprises recent communication messages to or from the handheld communication device.

1 31. The handheld communication device of claim 30 wherein the communication
2 messages comprise one or more of e-mail messages, short messaging service messages, or
3 instant messaging service messages.

1 32. The handheld communication device of claim 28 wherein the application information
2 comprises one or more upcoming events or to do items for a user of the handheld
3 communication device.

1 33. The handheld communication device of claim 28 wherein the user interaction
2 comprises one or more of: selection with a pointing device or selection using voice
3 commands.

1 34. The handheld communication device of claim 33 wherein the pointing device
2 comprises one or more of: a stylus, a fingertip stylus, a finger, or one or more buttons.

1 35. The handheld communication device of claim 28 wherein segregated comprises being
2 divided into cascaded windows.

1 36. The handheld communication device of claim 28 wherein the status icons comprise
2 one or more of: a logo icon, a program group icon, an application name icon, a battery life
3 indicator icon, a current time indicator icon, a received signal strength indicator icon, a help
4 icon, a voice mail indicator icon, an input toggle icon, a backpack software icon, or a
5 Bluetooth icon.

1 37. The handheld communication device of claim 28 wherein the user applications
2 comprise one or more of: communication applications, personal information management
3 applications, personal productivity applications, multimedia applications, or game
4 applications.

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44. The handheld communication device of claim 28 wherein the system application executes in a system window located at the top of a display area of the handheld communication device.

45. The handheld communication device of claim 44 wherein the browser executes in an application window located below the system window.

46. The handheld communication device of claim 45 wherein the browser loads an HTML page that includes an area reserved for displaying advertising information that is configured to display one or more of: streaming media information, flash animation information, banner ads, packet video information, gif animations, image files, or multimedia information.

47. The handheld communication device of claim 46 wherein the area reserved for displaying advertising information is located at the bottom of the application window.

48. The handheld communication device of claim 44 wherein the system window includes an area reserved for display of a logo icon.

49. The handheld communication device of claim 48 wherein selection of the logo icon causes a folder menu to be displayed on a display of the handheld communication device.

50. The handheld communication device of claim 49 wherein the folder menu includes an area reserved for a listing of recently used ones of the user applications.

1 51. The handheld communication device of claim 50 wherein the recently used ones of the
2 user applications are displayed as icons within the reserved area.

1 52. The handheld communication device of claim 49 wherein the folder menu comprises a
2 dropdown menu of available application groups for the handheld communication device.

1 53. The handheld communication device of claim 52 wherein the application groups
2 include one or more of: an all application group, a communication application group, a
3 multimedia application group, a personal productivity application group, a main application
4 group that includes a personal information manager application, a games application group,
5 a system application group, and a user personal applications group.

1 54. The handheld communication device of claim 53 wherein selection of one of the
2 application groups causes a window that includes images representing those of the user
3 applications that belong to the selected application group to be opened.

1 55. A method, comprising displaying, on a single screen of a user interface of a handheld
2 communication device, system status information for the handheld communication device
3 in a system window and application information for a number of user applications of the
4 handheld communication device in a browser executing in an application window.

1 56. The method of claim 55 wherein the application information comprises user
2 application status information.

1 57. The method of claim 55 wherein the application information comprises recent
2 communication messages to or from the handheld communication device.

1 58. The method of claim 57 wherein the communication messages comprise one or more
2 of e-mail messages, short messaging service messages, or instant messaging service
3 messages.

1 59. The method of claim 55 wherein the application information comprises one or more
2 upcoming events or to do items for a user of the handheld communication device.

1 60. The method of claim 55 further comprising selecting with a pointing device or using
2 voice commands, an user application associated with at least a portion of the application
3 information through interaction with the browser.

1 61. The method of claim 60 wherein the pointing device comprises one or more of: a
2 stylus, a fingertip stylus, a finger, or one or more buttons.

1 62. The method of claim 55 wherein the system status information is conveyed through
2 status icons comprising one or more of: a logo icon, a program group icon, an application
3 name icon, a battery life indicator icon, a current time indicator icon, a received signal
4 strength indicator icon, a help icon, a voice mail indicator icon, an input toggle icon, a
5 backpack software icon, or a Bluetooth icon.

1 63. The method of claim 55 wherein the application information comprises information
2 regarding one or more user applications chosen from the list including: communication

3 applications, personal information management applications, personal productivity
4 applications, multimedia applications, or game applications.

1 64. The method of claim 63 wherein the communication applications comprise one or
2 more of: a telephone dialer, an e-mail application, a short messaging service application, an
3 Internet browser, a wireless access protocol browser, an instant messenger application, or a
4 Bluetooth communication application.

1 65. The method of claim 63 wherein the personal productivity applications comprise one
2 or more of: a text editor, a spreadsheet, a database, an e-book reader, an image viewer, an
3 image editor, or an audio manager.

4 66. The method of claim 55 wherein the browser further executes to display advertisement
5 information in a designated area of the application window.

1 67. The method of claim 55 wherein different categories of user interactions with the
2 browser initiate different user application responses.

1 68. The method of claim 67 wherein the different categories of user interactions are
2 selected from the list comprising: a single selection operation, a select and hold operation
3 and a double selection operation.

1 69. The method of claim 55 wherein the current or recent application information is
2 displayed in the browser in so as to be navigable in a circular fashion.

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1 78. The method of claim 75 wherein the folder menu comprises a dropdown menu of
2 available application groups for the handheld communication device.

1 79. The method of claim 78 wherein the application groups include one or more of: an all
2 application group, a communication application group, a multimedia application group, a
3 personal productivity application group, a main application group that includes a personal
4 information manager application, a games application group, a system application group,
5 and a user personal applications group.

1 80. The method of claim 79 wherein selection of one of the application groups causes a
2 window that includes images representing those of the user applications that belong to the
3 selected application group to be opened.

1 81. A user interface for a handheld communication device, comprising a number of screen
2 areas, one of which is devoted to a system window in which a system application for
3 controlling the operation of the handheld communication device executes, and another of
4 which is devoted to an application window in which a browser executes to display an
5 HTML-based interface page comprising current or recent application information for
6 respective user applications of the handheld communication device.

1 82. The user interface of claim 81 wherein the system application executes to display
2 status icons for the system operations of the handheld communication device.

1 83. The user interface of claim 82 wherein the system application further executes to
2 permit user access to a main menu.

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1 84. The user interface of claim 82 wherein the HTML-based interface page is configured
2 to allow for one or more of the user applications to be accessed through user interaction
3 with the interface page.

1 85. The user interface of claim 84 wherein the user interaction comprises one or more of:
2 selection with a stylus, selection with one or more buttons or selection through voice
3 commands.

1 86. The user interface of claim 84 wherein the HTML interface page is linked with other
2 interface pages.

1 87. The user interface of claim 84 wherein the HTML interface page is downloaded to the
2 handheld communication device from a remote location.

1 88. The user interface of claim 87 wherein the remote location comprises a server.

1 89. The user interface of claim 83 wherein the main menu includes a number of
2 application group indicators which link to dynamically generated interface pages, each of
3 which are configured to list applications associated with a respective application group.

1 90. The user interface of claim 89 wherein the dynamically generated interface pages list
2 applications associated with a respective application group using images representing those
3 applications.

1 91. The user interface of claim 90 wherein through user interaction with the images,
2 associated applications are launched by a controller.

1 92. The user interface of claim 91 wherein the application groups comprise one or more
2 of: an all application group, a communication application group, a multimedia application
3 group, a personal productivity application group, a main application group that includes a
4 personal information manager application, a games application group, a system application
5 group, and a user personal applications group.

1 93. The user interface of claim 92 wherein the communication application group comprises
2 one or more of: a telephone dialer, an e-mail application, a short messaging service
3 application, an Internet browser, a wireless access protocol browser, an instant messenger
4 application, or a Bluetooth communication application.

1 94. The user interface of claim 92 wherein the personal productivity applications comprise
2 one or more of: a text editor, a spreadsheet, a database, an e-book reader, an image viewer,
3 an image editor, or an audio manager..